

HIGH-SPEED IMAGE PICKUP METHOD AND CONTROLLER FOR IMAGE PICKUP DEVICE

Abstract of the Disclosure

5 A high-speed image pickup method and controller of an image pickup device are provided. The method includes applying a vertical transmission signal to a vertical transmission register in the form of a field transmission signal, thereby simultaneously transmitting charges accumulated at a plurality of pixels to the vertical transmission register; applying the vertical transmission signal to the vertical
10 transmission register in the form of a line transmission signal, thereby transmitting a charge signal corresponding to each horizontal line in the vertical transmission register to the horizontal transmission register at a high speed, and applying a horizontal transmission signal to the horizontal transmission register, thereby outputting the charge signal of the horizontal transmission register; transmitting the charge signal of the vertical transmission register to the horizontal transmission
15 register at a normal speed when a horizontal line of which the charge signal is transmitted is a first horizontal line, and applying the horizontal transmission signal to the horizontal transmission register, thereby outputting the charge signal of the horizontal transmission register; and transmitting the charge signal of the vertical transmission register to the horizontal transmission register at the high speed when a horizontal line of which the charge signal is transmitted is a second horizontal line, and applying the horizontal transmission signal to the horizontal transmission register, thereby outputting the charge signal of the horizontal transmission register. Accordingly, the high-speed image pickup method and controller can realize high-
20 speed image pickup using a normal image pickup device instead of using a special high-speed image pickup device.

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